

6. (Amended) The method of claim 5, wherein said determining step includes:
matching cells in the grid levels of the reference image with cells in the grid levels
of the target image.

7. (Amended) The method of claim 5, wherein said determining step includes:
matching the grid levels of the reference image with respective ones of the grid
levels of the target image, and cross-matching grid levels of the reference image with grid levels
of the target image.

8. (Amended) The method of claim 5, wherein said determining step includes:
matching region representative color values between the grids levels of the
reference and target images.

9. (Amended) The method of claim 5, further comprising:
determining a similarity between cells in the hierarchical grid levels of the
reference and target images in accordance with steps that include:
multiplying color similarity (Color_Sim) corresponding to a similarity of region
representative colors between cells in the grid levels of the reference and target images and a
first weight,

adding a value obtained by multiplying similarity (I) representing a similarity of a reliability between cells in the grid levels of the reference and target images and a second weight to the color similarity (Color_Sim), and
normalizing the cell similarity.

10. (Amended) The method of claim 5, further comprising:

determining a similarity between same grid levels in the reference and target images based on a total value summed by shifting in a horizontal and vertical direction based on a shifting amount by a difference of widths and heights between grid levels when two grid levels are compared and the similarity is calculated.

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cont 11. (Amended) The method of claim 5, further comprising:

determining a color similarity between the grids of the reference and target images based on a value summed shifting in a horizontal direction and a vertical direction by a difference in width and heights between the grid levels.

12. (Amended) The method of claim 5, wherein a cell similarity between grid levels of the reference and target images is used for searching a same position and different position between same levels in the case that the search is performed by matching a color region.

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13. (Amended) The method of claim 5, wherein a color region matching operation between the grid levels of the reference and target images is directed to searching at a same position of different levels and at a different position when searching the color similarity between different levels.

Please add new claims 14 - 26 as follows:

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14. An image data structure, comprising:
a first grid; and
a second grid,
wherein the first grid and the second grid express a feature of an image at different resolutions.

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15. The image data structure of claim 14, wherein the first grid includes a first number of cells and the second grid has a second number of cells different from said first number of cells.

16. The image data structure of claim 15, wherein said second number of cells is greater than said first number of cells.

17. The image data structure of claim 14, wherein the first grid and the second grid are hierarchically related.

18. The image data structure of claim 17, wherein the second grid includes a plurality of groups of cells, each group representing the feature of said image at different areas within a respective one of the cells in the first grid.

19. The image data structure of claim 15, wherein the feature is a spatial color feature.

20. The image data structure of claim 19, wherein each of the cells in the first grid is assigned a first value and a second value for representing the spatial color feature of said image.

21. The image data structure of claim 20, wherein the first value is a regional representative color and the second value is a reliability score indicative of an accuracy of the regional representative color.

22. The image data structure of claim 20, wherein each of the cells in the second grid is assigned multiple values for representing the spatial color feature of said image.

23. The image data structure of claim 15, wherein the number of cells in the first grid and the number of cells in the second grid are proportional to a size of the image.

24. The image data structure of claim 23, wherein the image has a square shape and is uniformly divided into the cells of the first grid.

25. The image data structure of claim 23, wherein the image has a non-square shape, and wherein a first side of the image is divided uniformly and a second side of the image is divided based on a dividing unit of the first side, said divisions forming the cells in the first grid.

26. The image data structure of claim 15, wherein each of the cells in the first grid have a first size and each of the cells in the second grid have a second size different from said first size.

IN THE DRAWINGS

A Proposed Amendment to the Drawings is submitted with this paper.